



## TRIPLE-GRID SUPER-CONTROL AMPLIFIER

|                                                  |                              |                         |
|--------------------------------------------------|------------------------------|-------------------------|
| Heater                                           | Coated Unipotential Cathode* |                         |
| Voltage                                          | 6.3                          | a-c or d-c volts        |
| Current                                          | 0.3                          | amp.                    |
| Direct Interelectrode Capacitances: <sup>o</sup> |                              |                         |
| Grid to Plate                                    | 0.007 max.                   | 0.007 max. $\mu$ f      |
| Input                                            | 5                            | 5 $\mu$ f               |
| Output                                           | 9                            | 9 $\mu$ f               |
| Overall Length                                   |                              | 4-5/8" to 4-7/8" ←      |
| Seated Height                                    |                              | 4-1/16" to 4-5/16" ←    |
| Maximum Diameter                                 |                              | 1-9/16"                 |
| Bulb                                             |                              | ST-12                   |
| Cap                                              |                              | Skirted Miniature       |
| Base                                             |                              | Small Shell Octal 7-Pin |
| Pin 1 - No Connection                            |                              | Pin 5 - Suppressor      |
| Pin 2 - Heater                                   |                              | Pin 7 - Heater          |
| Pin 3 - Plate                                    |                              | Pin 8 - Cathode         |
| Pin 4 - Screen                                   |                              | Cap - Grid              |
| Mounting Position                                | Any                          |                         |



BOTTOM VIEW (G-7R)

### AMPLIFIER

|                                                                               |                                |                  |
|-------------------------------------------------------------------------------|--------------------------------|------------------|
| Plate Voltage                                                                 | 300 max.                       | volts            |
| Screen Voltage                                                                | 100 max.                       | volts            |
| Screen Supply Voltage                                                         | 300 max.                       | volts            |
| Grid Voltage                                                                  | 0 min.                         | volts            |
| Plate Dissipation                                                             | 2.25 max.                      | watts            |
| Screen Dissipation                                                            | 0.25 max.                      | watt             |
| <b>Typical Operation and Characteristics - Class A<sub>1</sub> Amplifier:</b> |                                |                  |
| Plate                                                                         | 100                            | 250 volts        |
| Screen                                                                        | 100                            | 100 volts        |
| Grid                                                                          | -3                             | -3 volts         |
| Suppressor                                                                    | Connected to cathode at socket |                  |
| Plate Res.                                                                    | 0.25                           | 0.8 approx. ohms |
| Transcond.                                                                    | 1500                           | 1600 $\mu$ mhos  |
| Grid Bias for                                                                 |                                |                  |
| Transcond. of 2 $\mu$ mhos                                                    | -50                            | -50 volts        |
| Plate Cur.                                                                    | 8                              | 8.2 ma.          |
| Screen Cur.                                                                   | 2.2                            | 2 ma.            |

- In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
- # The internal shield in the dome of the 6U7-G is connected to the cathode within the tube.
- ° With close-fitting shield connected to cathode.

The Curve under type 6D6 also applies to the 6U7-G.

← Indicates a change.

Sept. 2, 1941

RCA RADIOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

DATA

6U7-G



6U7-G

# AVERAGE PLATE CHARACTERISTICS



AUG. 20, 1941

RCA RADOTRON DIVISION  
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